



North Carolina Department of Environment and Natural Resources

Dexter Matthews, Director

Division of Waste Management

Beverly Eaves Perdue, Governor
Dee Freeman, Secretary

March 6, 2009

Ms. Nancy Rickard
Lincoln County Solid Waste Division
5291 Crouse Road
Crouse, NC 28033

Re: Leachate Release Assessment
Lincoln County Landfill, Permit #55-03

Dear Ms. Rickard:

The Solid Waste Section has completed a review of the *Assessment Plan for January 2009 Leachate Release* submitted on February 27, 2007 on behalf of Lincoln County by S&ME, Inc. for the Lincoln County Landfill. Surface water samples were collected on January 19-20, 2009, and at the request of the Solid Waste Section, additional surface water and soil samples were collected on January 23, 2009. Based upon the preliminary surface water and soil sampling results, additional assessment was required. The *Assessment Plan for January 2009 Leachate Release* was then submitted to the Solid Waste Section to evaluate the extent of the surface water, soil, and groundwater impacts from the leachate release.

The *Assessment Plan for January 2009 Leachate Release* consists of soil, surface water, and groundwater sampling. First, potentially impacted soils will be identified by a hand auger at specific downgradient locations. In addition, several background soil samples will be collected to characterize the baseline concentrations at the facility. Soil samples will be collected and analyzed for Appendix I Volatile Organics and Metals, Nitrate-Nitrite, Phosphorus, Percent Solids, and pH. Second, additional surface water samples will be collected and analyzed for Appendix I Volatile Organics and Metals, Nitrate-Nitrite, Phosphorus, BOD, COD, Sulfate, and Total Suspended Solids. Field parameters will also be collected. Third, three groundwater monitoring wells will be installed, and groundwater samples will be collected and analyzed for Appendix I Volatile Organics and Metals. In addition, slug tests will be performed in the newly installed groundwater monitoring wells. Finally, during the groundwater monitoring well installation, soil samples will be collected from each boring for laboratory soil classification and saturated soil samples will be analyzed for Appendix I Metals.

As a result, the *Assessment Plan for January 2009 Leachate Release* is approved as described. Once all elements of the *Assessment Plan for January 2009 Leachate Release* are completed, please submit a written report of the findings to the Solid Waste Section within 30 days. If you have any questions or concerns regarding this letter, please contact me at 919-508-8500.

Sincerely,

Jaclynne Drummond
Hydrogeologist
Environmental Compliance
Solid Waste Section

cc: Julie Peterson, S&ME, Inc.
Mark Poindexter, Field Operations Supervisor
Deb Aja, Western District Supervisor
C.T. Gerstall, Environmental Senior Specialist
Shawn McKee, Compliance Officer
Solid Waste Section Central Files